云南省的单殖吸虫

Ⅱ. 洱海几种土著鱼的指环虫新种记述

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作者等于1964年、1977年在洱海等地，从洱海四须鲃*Barbodes* (*Bar*.) *daliensis* Wu et Lin.、油四须鲃*B*.(*Bar*)*exigua* Wu et Lin.及大理裂腹鱼*Schizothorax* (*Schizopyge*) *taliensis* Regan的鳃片上各发现一种指环虫，均属新种，现分述于后：

文内量度以毫米为单位。正、副模式标本分存于华东师范大学及昆明师范学院生物系。

洱海指环虫*Dactylogyrus erhaiensis*，新种（图1）

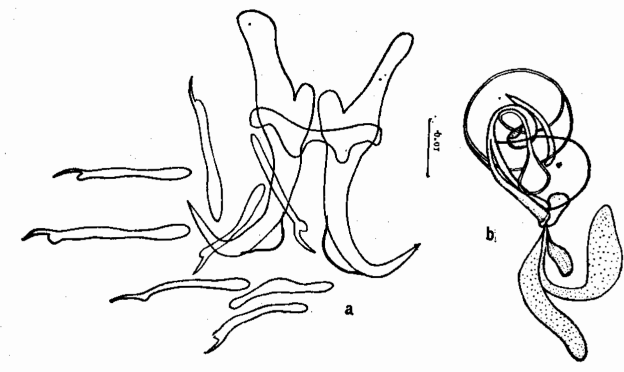


图1 洱海指环虫 *Dactylogyrus erhaiensis*，新种

a.中央大钩； *b*.雄生殖器。

为中形指环虫，体长0.435—0.535，宽0.075—0.10；咽直径0.013—0.025。

后吸器具有二联结片。边缘小钩长0.019—0.032，第二对最长，第六对最短。中央大钩同*D. wunderi* Bych型，全长0.040—0.043，基部长0.028—0.031，内突长0.015—0.017，外突长0.003—0.005，钩尖长0.011—0.012。联结片形直，大小为0.002—0.003×0.020—0.025，前缘微凹，两端稍膨大，后缘具两个乳状突。辅片条状，0.001—0.002×0.016—0.018。

交接器细长，基部膨大，直径0.006—0.007，其余管径0.001，管多盘绕2—3圈，

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全长据弯度为0.053—0.057。支持器似筋骨状，基部宽扁，中部较细，端部膨大呈匙状，正中具一小孔，交接管似由孔中穿过，全长0.030—0.034。

卵大小为0.068—0.036。阴道未见。描述据8个封片标本。

宿主：洱海四须鲃*Barbodes* (*Bar.*) *daliensis* Wu et Lin.

分布：洱海。

本种交接器及中央大钩均近似喙指环虫*Dactylogyrus rhynchoideus* Long，但支持器的细微结构不同。

油四须鲃指环虫*Dactylogyrus exiguus* 新种（图2）



图2 油四须鲃指环虫 *Dactylogyrus exiguus*，新种

a.中央大钩； *b*.雄生殖器

体形小，长0.281—0.350，宽0.056—0.081；咽0.008—0.014×0.003—0.011。

后吸器具二联结片，边缘小钩0.015—0.029，以第四对最长，第六对最短。中央大钩似*D. macracanth* Wegener，全长0.024—0.039，基部长0.017—0.029，内突长0.014—0.016，外突长0.003—0.004，钩尖长0.007—0.010。联结片呈浅“笔架”状，大小为0.002×0.016—0.020。辅片细条形，宽0.014—0.018。

交接器简单，长0.029—0.033，中部管径0.001—0.002。具基座。支持器桥状，中部及基部各有一侧突，其近中部者，似钩住交接管中部，全长0.029—0.033。

卵及阴道未见。描述据6个封片标本。

宿主：油四须鲃 *Barbodes* (*Bar.*) *exigua* Wu et lin

分布：洱海。

本种交接器近似*D. vastator* Nybelin，但本种中央大钩内突较长，并具辅片。

大理指环虫*Dactylogyrus daliensis* 新种（图3）

中形蠕虫，长0.541—0.895，宽0.125—0.162；咽大小为0.033—0.035。

后吸器仅见一联结片。边缘小钩长0.024—0.043，以第3对钩最长，第7对最短。中央大钩基部有一不规则小孔，全长0.067—0.075，基部长0.047—0.058，内突长0.027—0.033，外突长0.007—0.010，钩尖长0.016—0.018。联结片棒状，大小为0.005—0.008×0.045—0.047。

交接器全长0.047—0.050；交接管细长，基部囊状，直径0.008—0.010，其余管径约0.001，全长据曲度为0.077—0.083。支持器基部稍膨大，中部似鸟颈，前端由几片几丁质片组成，似鸟的头骨，交接管弯折后，似由“枕孔”部通出，再沿几丁质片向前延伸。

阴道长0.022—0.026。卵未见。描述据5个封片标本。

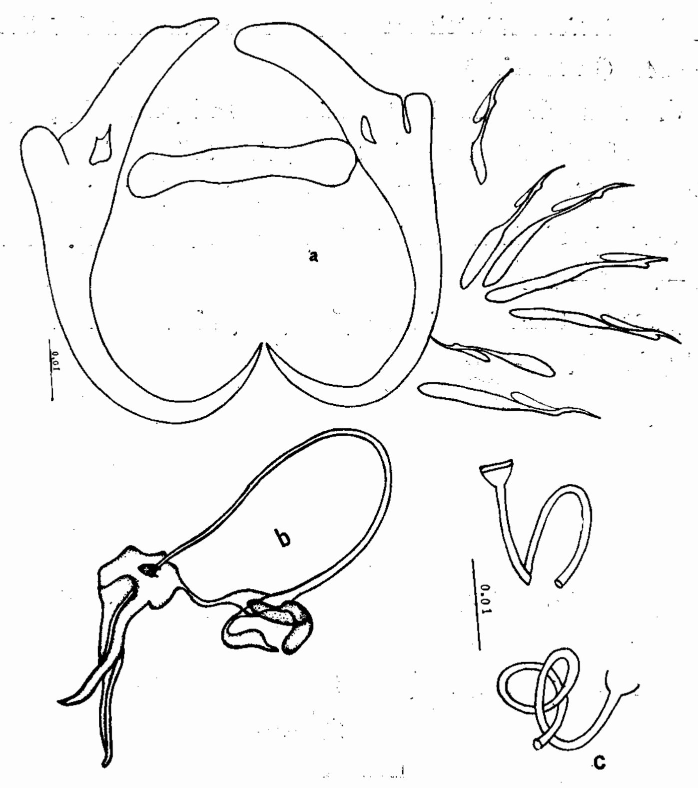


图 3　大理指环虫 *Dactylogyrus daliensis*，新种

a.中央大钩；　*b*.雄生殖器；　*c*.阴道。

宿主：大理裂腹鱼 *Schizopyge* (*Schizop.*) *taliensis* Regan、重口裂腹鱼 *S.* (*Schizop.*) *daridi* (Sauv.)、南方裂腹鱼 *Schizothorax* (*Schizoth.*) *molesworthi meridionalis* Tsao。

分布：洱海、四川等。

本种中央大钩近似 *D. longsoi* Gussev，但支持器结构不同，也有别于上述新种。

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MONOGENEA OF YUNNAN PROVINCE

I. New *Dactylogyrus* from Erhai lake fishes

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Three new species of *Dactylogyrus* are reported from Erhai lake fishes of Yunnan Province. They are characterized as follows:

All measures are in mm.

1. *Dactylogyrus erhaiensis* sp. nov.

Medium size worm, 0.435—0.535×0.075—0.100. pharynx 0.013—0.025 in diameter.

7 pairs of marginal hooklets, 0.019—0.032 in length, with the 2nd pair the longest and the 6th the shortest. Central large hooks *D. wunperi* Bych. type. Total length 0.040—0.043, basal portion 0.028—0.031, inner root 0.015—0.017, outer root 0.003—0.005, point 0.011—0.012. Connective bar straight, 0.002—0.003×0.020—0.025. Supplementary plate a narrow stick, 0.001—0.002×0.016—0.018.

Copulating tube thin and long and with an enlarged base, 0.006—0.007 in diameter, the tube coils 2—3 times and measures 0.053—0.057 accordingt o its

curvature. Supporting piece J-shaped with a small piece attached on its tail end.

Egg 0.068×0.036. Measurements based on 8 specimens.

Host: *Barbodes (Bar.) daliensis* Wu et Lie.

Location: Gills.

Distribution: Erhai, Yunnan.

Type and paratype: deposited separately in the Biology Department of East China Normal University and Kunming Normal College.

This species resembles to *Dactylogyrus rhynchoideus* Long, 1981, but the supporting piece of the copulating apparatus is different in detail.

2. *Dactylogyrus exiguus* sp. nov.

Minute worm, 0.281—0.350×0.056—0.081. Pharynx 0.008—0.014×0.003—0.011.

Opithohaptor with two connective bars. 7 pairs of marginal hooklets, 0.015—0.029 in length, with the 4th the longest and the 6th the shortest. Central large hooks are of *D.* macracanthus Wegener type. Total length 0.024—0.039, basal portion 0.017—0.029, inner root 0.014—0.016, outer root 0.003—0.004, point 0.007—0.010. Connective bar with enlarged ends, 0.002×0.016—0.020. Supplementary plate a thin stick, 0.014—0.018 in width.

Copulatory apparatus simple, 0.029—0.033 in length. Copulating tube with an enlarged base and becomes narrower graduelly; supporting piece simple and with a lateral process on the middle and another process near the base.

Measurements based on 6 mounted specimens.

Host: *Barbodes exigua* Wu et Lin.

Loeation: Gills.

Distribution: Erhai, Yunnan.

Type and paratype: deposited in the Biological Department of East China Normal University and Kunming Normal College.

This species is similar to *D. vastator* Nybelin, 1924, but the inner root of the central large hooks is much longer than that of the latter. It also has a supplementary plate, so it is new to science.

3. *Dactylogyrus daliensis* sp. nov.

Medium size worm, 0.541—0.895×0.125—0.126. Pharynx 0.033—0.035 in diameter.

Opisthohaptor with only one connective bar. 7 pairs of marginal hooklets, 0.024—0.043 in length, with the 3rd pair the longest, and the 7th pair the shortest. Central large hooks: total length 0.067—0.075, basal portion 0.047—0.058, inner root 0.027—0.033, outer root 0.007—0.010, point 0.016—0.018. Connective bar 0.005—0.008×0.045—0.047.

Copulatory apparatus 0.047—0.050 in length. Copulating tube thin and long, with the base swelled, 0.008—0.010 in diameter, the tube length according to its curvature, 0.077—0.083. Supporting piece looks like a bird head and through which the tube penetreats.

Vagina tubular, 0.022—0.026 in length. Egg not seen. Measurements based on 5 mounted specimens.

Host: *Schizothorax (Schizopyge) taliensis* Regan.

S. (Schizopyge) daridi (Sauv.)

S. (Schizoth.) molesurrthi meridionalis Tsao

Location: Gills.

Distribution: Erhai and Chenghai of Yunnan and Sichuan.

Type and paratype: deposited separately in East China Normal University and Kunming Normal College.

This species resembles to *D. longsoi* Gussev, 1962, but differs from it by the detail structure of the supporting piece of the copulatory apparatus and also differs from other species sofar reported on *Schizothorax*.